

CLAIMS

What is claimed is:

- 5 1. A method of treating a health condition of a user, comprising:
 providing a graphic element for the user to compose a graphic production
 comprising the graphic element;
 determining a sensory signal for use to treat the user's health condition; and
 measuring a change of the sensory signal while the user is composing the
10 graphic production;
 wherein the sensory signal change is used to regulate the user's activities in
 composing the graphic production to thereby treat the user's health condition.
2. The method of claim 1, wherein the sensory signal is determined in
15 accordance to the health condition to be treated.
3. The method of claim 2, wherein the sensory signal is at least one of blood
 pressure, digital pulse volume, skin conductance, skin temperature, heart rate and pulse rate
 when the health condition is the user's general health.
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4. The method of claim 2, wherein the sensory signal is at least one of
 digital pulse volume, skin temperature, skin conductance, blood pressure, pulse rate and
 heart rate when the health condition is the user's emotional health.
- 25 5. The method of claim 2, wherein the sensory signal is
 electroencephalogram when the health condition is the user's cognitive health.
6. The method of claim 1, wherein the sensory signal is selected from the
 group consisting of blood pressure, digital pulse volume, electroencephalogram,
30 electrocardiogram, electromyogram, galvanic heart rate, pulse rate, respiration, skin
 conductance, skin response, skin temperature, and any combination thereof.
7. The method of claim 1, wherein the graphic element is selected from the
 group consisting of characters, alphabets, scripts, numerals, geometric units, non-linguistic
35 forms, and any combination thereof.

8. The method of claim 1 further comprising displaying the second sensory signal while the user is composing the graphic production.

5 9. The method of claim 8 further comprising displaying the sensory signals in at least one of the forms of visual, auditory, tactile, and thermal signals.

10 10. A method for treating a health condition of a user, comprising:
determining a sensory signal for use to treat the user's health condition;
measuring a change in the sensory signal while the user is engaging in an
activity; and
using the sensory signal change to regulate the user's activity to thereby treat the user's health condition.

15 11. The method of claim 10, wherein the change in the sensory signal is measured when the user is engaging in a handwriting activity.

12. The method of claim 11, wherein the handwriting activity comprising tracing a graphic element.

20 13. The method of claim 11, wherein the handwriting activity comprising copying a graphic element.

25 14. The method of claim 10, wherein the change in the sensory signal is measured when the user is engaging in a free handwriting.

15. The method of claim 11, wherein the handwriting activity comprising tracing a graphic element, copying a graphic element, and free handwriting.

30 16. The method of claim 10, wherein the change in the sensory signal is measured when the user is handwriting a graphic element.

35 17. The method of claim 16, wherein the graphic element is selected from the group consisting of characters, alphabets, scripts, numerals, geometric units, non-linguistic forms, and any combination thereof.

18. The method of claim 16, wherein the graphic element comprises a predetermined non-linguistic form.

19. The method of claim 18, wherein the non-linguistic form is selected from the group consisting of drawings, cave writings, tokens, logos, symbols, and any combination thereof.

20. A system for treating a health condition of a user, comprising:
a sensor device for measuring a sensory signal of the user while the user is engaging in an activity; and
a display device receiving the sensory signal measured by the sensor device and displaying the sensory signal;
wherein the change to the sensory signal is used to regulate the user's activity to thereby treat the user's health condition.

21. The system of claim 20 further comprising an article used by the user when engaging in the activity.

22. The system of claim 21, wherein sensor device is built-in the article.

23. The system of claim 21, wherein the article is selected from the group consisting of writing instruments, personal care devices, exercise devices, computer mouse, joy sticks, medical devices, hand-craft devices, household utensils, hand-tools, and any combination thereof.

24. The system of claim 22, wherein the writing instrument is selected from the group consisting of pens, pencils, brushes, stylus, chalks, crayons, markers, and any combination thereof.

25. The system of claim 21, wherein the display device generates at least one of the visual, auditory, tactile, and thermal signals.

26. The system of claim 21 further comprising a graphic element to be used by the user to compose a graphic production comprising the graphic element.

27. The system of claim 26, wherein the graphic element is selected from the group consisting of characters, alphabets, scripts, numerals, geometric units, non-linguistic forms, and any combination thereof.

5 28. The system of claim 21, wherein the sensory signal is selected from the group consisting of blood pressure, digital pulse volume, electroencephalogram, electrocardiogram, electromyogram, galvanic heart rate, pulse rate, respiration, skin conductance, skin response, skin temperature, and any combination thereof.

10 29. The system of claim 21, wherein the sensor device measures a plurality of sensory signals.

30. The system of claim 29 comprising a plurality of sensor devices for use on a plurality of users.

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